PHILOPATEER SHENOUDA

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Full-stack software engineer (TypeScript, AWS, applied AI) with NASA research-software contributions through KBR.

EXPERIENCE

Wesley Financial Group *August 2025 – Present*

Software Engineer, June 2026 – Present · promoted from IT Applications Developer

Hired to maintain a vendor's client portal; now own four production applications, their AWS infrastructure and release pipeline, and the development standard for Wesley's in-house engineering team.

- Replaced a vendor client portal that couldn't be customized and was projected to reach six figures a year at full rollout. Prototyped the replacement on my own initiative and shipped it in three months (Next.js/TypeScript); it holds 20,000 client accounts and integrates Salesforce, document intake, advisor messaging, billing and DocuSign.
- Staff sorted, renamed and redacted client documents by hand. Built Document Lab to take that over: an Amazon Bedrock model sorts each into one of 36 types and files it in Salesforce under a standard name.
- A missed Social Security or account number in Salesforce costs more than a held document, so the redaction engine verifies its own output and fails closed (MuPDF content removal, OCR validation). Each change is replayed as an A/B evaluation against reviewer-reported failures.
- Built HR's recruiting assessments on .NET 10/Angular, now the reference implementation for the team standard. Versioning lets HR publish changes without a deployment while candidates keep the questions they were issued.
- Built a support console so staff can diagnose a client's problem from that client's view (audited, time-limited access), with per-client error lookup, service-health and backup checks, and browser-journey replay.
- Protected client financial data at three layers (Cognito sign-in with PKCE/MFA, server-side token verification, per-user record access) across three isolated AWS accounts with OIDC-federated access.
- Leading the move of the portal, Document Lab and support console onto the team's standard stack (.NET 10/Angular) and Wesley-owned AWS, to cut hosting cost and leave one stack to maintain.

Software Engineering Intern (Remote), KBR *June 2024 – December 2024*

Contributed to NASA's RACE framework and ODIN-Fire wildfire-response software.

- Built a microservice that feeds wildfire wind and hotspot data through an API to a POMDP-based drone trajectory planner generating navigation instructions for deployed drones.
- Built 2D (Plots.jl) and 3D (CesiumJS) visualizations the team used to analyze and evaluate research scenarios.
- Contributed automated tests, code reviews, and technical documentation within the research team.

Technologies: Scala, Akka, JavaScript, Julia (Plots.jl), CesiumJS, POMDP algorithms.

Software Developer (Volunteer), Southern US Coptic Community *August 2023 – Present*

- Built and maintain the 501(c)(3) organization's website (Next.js, Directus CMS): Pages-to-App Router migration and CMS integration for dynamic content.

AWARDS

Cliniq Medication safety from photos	2nd place, HackMT 2026
Blue Buddy AI patient check-ins by phone	Hacker's Choice, HackMT 2025
Blue Bill Hospital-bill analysis	1st place, HackMT 2024
MediQ / TrueBlueMD Patient-data RAG	1st place, TNHIMSS 2023
TOLK AI reading coach on Oracle Cloud	Top 6 Finalist, HackTN 2026
Patient check-in caller First version of Blue Buddy	Sponsor award, VandyHacks 2023

SKILLS

Languages: TypeScript, JavaScript, Python, C#, SQL, Scala

Frameworks & Data: React, Next.js, Angular, Node.js, NestJS, FastAPI, ASP.NET Core, PostgreSQL, Drizzle ORM, LangChain

Cloud & DevOps: AWS (Lambda, App Runner, RDS, S3, Cognito, IAM, VPC), Terraform, SST, OIDC, Docker, GitHub Actions

AI & Integrations: Bedrock, OpenAI, RAG, Textract, Comprehend; Azure OpenAI/Document Intelligence/Speech; Salesforce

EDUCATION

Bachelor of Business Administration, Information Systems & Analytics — Middle Tennessee State University · GPA 3.54